



RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/804,096
Source: IFNO
Date Processed by STIC: 3/25/04

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221

Effective 12/13/03: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.1 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail. Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom. Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/efb/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313 1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):
U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER: 10/204,096

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."
- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.
- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.
- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.
- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.
- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO: X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped

 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.
- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 <210> sequence id number
 <400> sequence id number
 000
- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence
- 11 ✓ Use of <220> Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
 (Sec "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of Sequence Rules)
- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.
- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWO

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/804,096

DATE: 03/25/2004

TIME: 16:15:28

Input Set : A:\88265-6868.txt

Output Set: N:\CRF4\03252004\J804096.raw

3 <110> APPLICANT: Societe Des Produits Nestle S.A.
 5 <120> TITLE OF INVENTION: COFFEE PLANT WITH REDUCED a-D-GALACTOSIDASE ACTIVITY
 7 <130> FILE REFERENCE: 88265-6868
 C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/804,096
 C--> 9 <141> CURRENT FILING DATE: 2004-03-19
 9 <150> PRIOR APPLICATION NUMBER: PCT/US02/09148
 10 <151> PRIOR FILING DATE: 2002-08-15
 12 <160> NUMBER OF SEQ ID NOS: 21
 14 <170> SOFTWARE: PatentIn version 3.1
 16 <210> SEQ ID NO: 1
 17 <211> LENGTH: 1442
 18 <212> TYPE: DNA
 19 <213> ORGANISM: coffee
 21 <400> SEQUENCE: 1

22	tgctccacaa	agcagtgcca	attgagttga	ttgatcaaca	ccaatttacc	atggccgctg	60
24	cttattacta	ccttttttct	agtaaaaaaa	gccaccaaaa	gctggtgctc	cgagcttcgt	120
26	tattgatgtt	tttatgtttc	ttggcggttg	aaaacgttgg	tgcttccgct	cgccggatgg	180
28	tgaagtctcc	aggaacagag	gattacactc	gcaggagcct	tttagcaa	gggcttggtc	240
30	taacaccacc	gatggggtgg	aacagctgga	atcatttcag	ttgtaatctt	gatgagaaat	300
32	tgatcaggga	aacagccgat	gcaatggcat	caaaggggct	tgctgcactg	ggatataagt	360
34	acatcaatct	tgatgactgt	tgggcagaac	ttaacagaga	ttcacagggg	aatttgggtc	420
36	ctaaagggtc	aacattccca	tcagggatca	aagccttagc	agattatgtt	cacagcaaag	480
38	gcctaaagct	tgggaatttac	tctgatgctg	gaactcagac	atgtagtaaa	actatgccag	540
40	gttcattagg	acacgaagaa	caagatgcca	aaacctttgc	ttcatggggg	gttgattact	600
42	taaagtatga	caactgtaac	gacaacaaca	taagcccca	ggaaagggtat	ccaatcatga	660
44	gtaaagcatt	gttgaactct	ggaagggtcca	tattttttct	tctatgtgaa	tggggagatg	720
46	aagatccagc	aacatgggca	aaagaagttg	gaaacagttg	gagaaccact	ggagatatag	780
48	atgacagttg	gagtagcatg	acttctcggg	cagatatgaa	cgacaaatgg	gcattcttatg	840
50	ctgggtcccg	tggatggaat	gaccttgaca	tggttgagggt	gggaaatgga	ggcatgacta	900
52	caacggaata	tcgatcccat	ttcagcattt	gggcattagc	aaaagcacct	ctactgattg	960
54	gctgtgacat	tcgatccatt	gacggtgcga	ctttccaact	gttaagcaat	gcggaagtta	1020
56	ttgcggttaa	ccaagataaa	cttggcggtc	aagggaaaaa	ggttaagact	tacggagatt	1080
58	tggaggtgtg	ggctggacct	cttagtgga	agagagtagc	tgctcgctttg	tggaatagag	1140
60	gatcttccac	ggctactatt	accgcgtatt	ggtccgacgt	aggcctcccg	tccacggcag	1200
62	tgggttaatgc	acgagactta	tgggcgcatt	caaccgaaaa	atcagtcaaa	ggacaaatct	1260
64	cagctgcagt	agatgccac	gattcgaaaa	tgtatgtcct	aacccacacag	tgattaacag	1320
66	gagaatgcag	aagacaagtg	atggttggtc	ctttcaagga	tttgattacc	ttaaagaatt	1380
68	tttcacatgt	tatgaatcaa	ttcaaagcaa	ttatgtgttt	tgaagagatt	aagtcaataa	1440
70	at						1442

73 <210> SEQ ID NO: 2
 74 <211> LENGTH: 420
 75 <212> TYPE: PRT
 76 <213> ORGANISM: coffee

Does Not Comply
 Corrected Diskette Needed
 (pg. 4)

RAW SEQUENCE LISTING

DATE: 03/25/2004

PATENT APPLICATION: US/10/804,096

TIME: 16:15:28

Input Set : A:\88265-6868.txt

Output Set: N:\CRF4\03252004\J804096.raw

78 <400> SEQUENCE: 2

```

80 Met Ala Ala Ala Tyr Tyr Tyr Leu Phe Ser Ser Lys Lys Ser His Gln
81 1 5 10 15
84 Lys Leu Val Leu Arg Ala Ser Leu Leu Met Phe Leu Cys Phe Leu Ala
85 20 25 30
88 Val Glu Asn Val Gly Ala Ser Ala Arg Arg Met Val Lys Ser Pro Gly
89 35 40 45
92 Thr Glu Asp Tyr Thr Arg Arg Ser Leu Leu Ala Asn Gly Leu Gly Leu
93 50 55 60
96 Thr Pro Pro Met Gly Trp Asn Ser Trp Asn His Phe Ser Cys Asn Leu
97 65 70 75 80
100 Asp Glu Lys Leu Ile Arg Glu Thr Ala Asp Ala Met Ala Ser Lys Gly
101 85 90 95
104 Leu Ala Ala Leu Gly Tyr Lys Tyr Ile Asn Leu Asp Asp Cys Trp Ala
105 100 105 110
108 Glu Leu Asn Arg Asp Ser Gln Gly Asn Leu Val Pro Lys Gly Ser Thr
109 115 120 125
112 Phe Pro Ser Gly Ile Lys Ala Leu Ala Asp Tyr Val His Ser Lys Gly
113 130 135 140
116 Leu Lys Leu Gly Ile Tyr Ser Asp Ala Gly Thr Gln Thr Cys Ser Lys
117 145 150 155 160
120 Thr Met Pro Gly Ser Leu Gly His Glu Glu Gln Asp Ala Lys Thr Phe
121 165 170 175
124 Ala Ser Trp Gly Val Asp Tyr Leu Lys Tyr Asp Asn Cys Asn Asp Asn
125 180 185 190
128 Asn Ile Ser Pro Lys Glu Arg Tyr Pro Ile Met Ser Lys Ala Leu Leu
129 195 200 205
132 Asn Ser Gly Arg Ser Ile Phe Phe Ser Leu Cys Glu Trp Gly Asp Glu
133 210 215 220
136 Asp Pro Ala Thr Trp Ala Lys Glu Val Gly Asn Ser Trp Arg Thr Thr
137 225 230 235 240
140 Gly Asp Ile Asp Asp Ser Trp Ser Ser Met Thr Ser Arg Ala Asp Met
141 245 250 255
144 Asn Asp Lys Trp Ala Ser Tyr Ala Gly Pro Gly Gly Trp Asn Asp Pro
145 260 265 270
148 Asp Met Leu Glu Val Gly Asn Gly Gly Met Thr Thr Thr Glu Tyr Arg
149 275 280 285
152 Ser His Phe Ser Ile Trp Ala Leu Ala Lys Ala Pro Leu Leu Ile Gly
153 290 295 300
156 Cys Asp Ile Arg Ser Ile Asp Gly Ala Thr Phe Gln Leu Leu Ser Asn
157 305 310 315 320
160 Ala Glu Val Ile Ala Val Asn Gln Asp Lys Leu Gly Val Gln Gly Lys
161 325 330 335
164 Lys Val Lys Thr Tyr Gly Asp Leu Glu Val Trp Ala Gly Pro Leu Ser
165 340 345 350
168 Gly Lys Arg Val Ala Val Ala Leu Trp Asn Arg Gly Ser Ser Thr Ala
169 355 360 365
172 Thr Ile Thr Ala Tyr Trp Ser Asp Val Gly Leu Pro Ser Thr Ala Val
173 370 375 380

```

RAW SEQUENCE LISTING

DATE: 03/25/2004

PATENT APPLICATION: US/10/804,096

TIME: 16:15:28

Input Set : A:\88265-6868.txt

Output Set: N:\CRF4\03252004\J804096.raw

```

176 Val Asn Ala Arg Asp Leu Trp Ala His Ser Thr Glu Lys Ser Val Lys
177 385                      390                      395                      400
180 Gly Gln Ile Ser Ala Ala Val Asp Ala His Asp Ser Lys Met Tyr Val
181                      405                      410                      415
184 Leu Thr Pro Gln
185                      420
188 <210> SEQ ID NO: 3
189 <211> LENGTH: 17
190 <212> TYPE: DNA
191 <213> ORGANISM: artificial
193 <220> FEATURE:
194 <223> OTHER INFORMATION: primer
196 <400> SEQUENCE: 3
197 atggtgaagt ctccagg                                     17
200 <210> SEQ ID NO: 4
201 <211> LENGTH: 17
202 <212> TYPE: DNA
203 <213> ORGANISM: artificial
205 <220> FEATURE:
206 <223> OTHER INFORMATION: primer
208 <400> SEQUENCE: 4
209 tcactgtggg gttagga                                     17
212 <210> SEQ ID NO: 5
213 <211> LENGTH: 23
214 <212> TYPE: DNA
215 <213> ORGANISM: artificial
217 <220> FEATURE:
218 <223> OTHER INFORMATION: primer
220 <400> SEQUENCE: 5
221 tgctccacaa agcagtggca att                               23
224 <210> SEQ ID NO: 6
225 <211> LENGTH: 23
226 <212> TYPE: DNA
227 <213> ORGANISM: artificial
229 <220> FEATURE:
230 <223> OTHER INFORMATION: primer
232 <400> SEQUENCE: 6
233 atttattgac ttaatctctt caa                               23
236 <210> SEQ ID NO: 7
237 <211> LENGTH: 35
238 <212> TYPE: DNA
239 <213> ORGANISM: artificial
241 <220> FEATURE:
242 <223> OTHER INFORMATION: primer
244 <400> SEQUENCE: 7
245 cggggtaccc cgctctcttt cttttggagt acaag                35
248 <210> SEQ ID NO: 8
249 <211> LENGTH: 35
250 <212> TYPE: DNA

```

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/804,096

DATE: 03/25/2004

TIME: 16:15:28

Input Set : A:\88265-6868.txt

Output Set: N:\CRF4\03252004\J804096.raw

251 <213> ORGANISM: artificial
253 <220> FEATURE:
254 <223> OTHER INFORMATION: primer
256 <400> SEQUENCE: 8
257 cgcggatccg cgtctctgac aacagaggag agtgt
260 <210> SEQ ID NO: 9
261 <211> LENGTH: 12
262 <212> TYPE: DNA
263 <213> ORGANISM: artificial
265 <220> FEATURE:
266 <223> OTHER INFORMATION: unknown
268 <400> SEQUENCE: 9
269 cggggtaccc cg
272 <210> SEQ ID NO: 10
273 <211> LENGTH: 12
274 <212> TYPE: DNA
275 <213> ORGANISM: artificial
277 <220> FEATURE:
278 <223> OTHER INFORMATION: unknown
280 <400> SEQUENCE: 10
281 cgcggatccg cg
284 <210> SEQ ID NO: 11
285 <211> LENGTH: 36
286 <212> TYPE: DNA
287 <213> ORGANISM: artificial
289 <220> FEATURE:
290 <223> OTHER INFORMATION: primer
292 <400> SEQUENCE: 11
293 cggggtaccc cgacaaaaga ttgaacaata catgtc
296 <210> SEQ ID NO: 12
297 <211> LENGTH: 35
298 <212> TYPE: DNA
299 <213> ORGANISM: artificial
301 <220> FEATURE:
302 <223> OTHER INFORMATION: primer
304 <400> SEQUENCE: 12
305 cgcggatccg cggagctcga atttccccga tcgtt
308 <210> SEQ ID NO: 13
309 <211> LENGTH: 35
310 <212> TYPE: DNA
311 <213> ORGANISM: artificial
313 <220> FEATURE:
314 <223> OTHER INFORMATION: primer
316 <400> SEQUENCE: 13
317 cggggtaccc cggaattccc gatctagtaa catag
320 <210> SEQ ID NO: 14
321 <211> LENGTH: 35
322 <212> TYPE: DNA
323 <213> ORGANISM: artificial

35

12

12

36

35

35

Please explain source of genetic material
Invalid Response
Please explain source of gene for material C.
Invalid Response
Please see item # 11 on error summary sheet.

RAW SEQUENCE LISTING

DATE: 03/25/2004

PATENT APPLICATION: US/10/804,096

TIME: 16:15:28

Input Set : A:\88265-6868.txt

Output Set: N:\CRF4\03252004\J804096.raw

```

325 <220> FEATURE:
326 <223> OTHER INFORMATION: primer
328 <400> SEQUENCE: 14
329 cgcggatccg cgtgctccac aaagcagtgg caatt 35
332 <210> SEQ ID NO: 15
333 <211> LENGTH: 35
334 <212> TYPE: DNA
335 <213> ORGANISM: artificial
337 <220> FEATURE:
338 <223> OTHER INFORMATION: primer
340 <400> SEQUENCE: 15
341 cgcggatccg cgatttattg acttaatctc ttcaa 35
344 <210> SEQ ID NO: 16
345 <211> LENGTH: 35
346 <212> TYPE: DNA
347 <213> ORGANISM: artificial
349 <220> FEATURE:
350 <223> OTHER INFORMATION: primer
352 <400> SEQUENCE: 16
353 cacgcgtcga cgctccaccg cggtaggcggc cgctc 35
356 <210> SEQ ID NO: 17
357 <211> LENGTH: 23
358 <212> TYPE: DNA
359 <213> ORGANISM: artificial
361 <220> FEATURE:
362 <223> OTHER INFORMATION: primer
364 <400> SEQUENCE: 17
365 gggccccccc tcgaggtcga cgg 23
368 <210> SEQ ID NO: 18
369 <211> LENGTH: 23
370 <212> TYPE: DNA
371 <213> ORGANISM: artificial
373 <220> FEATURE:
374 <223> OTHER INFORMATION: primer
376 <400> SEQUENCE: 18
377 ttcttttggt cctcggtgt ttg 23
380 <210> SEQ ID NO: 19
381 <211> LENGTH: 24
382 <212> TYPE: DNA
383 <213> ORGANISM: artificial
385 <220> FEATURE:
386 <223> OTHER INFORMATION: primer
388 <400> SEQUENCE: 19
389 ccaaacaatca aacttctcgc aatc 24
392 <210> SEQ ID NO: 20
393 <211> LENGTH: 27
394 <212> TYPE: DNA
395 <213> ORGANISM: artificial
397 <220> FEATURE:

```

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/804,096

DATE: 03/25/2004
TIME: 16:15:29

Input Set : A:\88265-6868.txt
Output Set: N:\CRF4\03252004\J804096.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/804,096

DATE: 03/25/2004

TIME: 16:15:29

Input Set : A:\88265-6868.txt

Output Set: N:\CRF4\03252004\J804096.raw

L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date